CLAIMS:

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- Denatured carob flour, characterized in that it comprises:
 2-15%Sugars, 0.2-1.5%Cyclitols (pinitol), 2-10% Lignins, 10-30% Celluloses, 3 20% Hemicelluloses, 1-6% Pectins, 25-55%Condensed tannins, 3-9% Protein and less than 8%Water.
 - 2. Denatured carob flour according to claim 1, wherein the Sugar content is 3-10%.
- 3. Denatured carob flour according to claim 1 or 2, wherein the Cyclitols content is 0.3-1%.
 - 4. Denatured carob flour according to one of claims 1-3, wherein the Lignins content is 2-7%.
 - 5. Denatured carob flour according to one of claims 1-4, wherein the Celluloses content is 15-28%.
- 6. Denatured carob flour according to one of claims 1-5, wherein the Hemicelluloses content is 3-9%.
 - 7. Denatured carob flour according to one of claims 1-6, wherein the Pectins content is 2-5%.
- 25 8. Denatured carob flour according to one of claims 1-7, wherein the Condensed Tannions content is 30-48%.
 - 9. Denatured carob flour according to one of claims 1-8, wherein the Protein content is 4-8%.
 - 10. Denatured carob flour according to one of claims 1-9, wherein the Water content is less than 6%.
 - 11. Process to obtain a flour according to claim 1, comprising the following steps:
- 35 a. Cleaning the whole fruit;
 - b. Crushing the carob fruits;
 - c. Separation of carob seeds and kibbled carob pulp;

- d. Toasting between 130-200°C
- e. Extraction process;
- f. Separation:
- g. Milling: 90% of particles below 250 μm
- 5 **h. Separation**:

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- i. Drying: below 8%,
- j. Classification (sieving):
- 12. Process according to claim 11, wherein in step b. the carob pod is shredded into pieces smaller than 3 cm.
 - 13. Process according to claim 11 or 12, wherein the temperature is between 140-150°C
- 14. Process according to one of claims 11-13, wherein the time period for the toasting process is 5-60 minutes
 - 15. Process according to claim 14, wherein the time period is 10-20 minutes.
- 16. Process according to one of claims 11-15, wherein in step e. the extraction is performed in the range of 5-80°C.
 - 17. Process according to one of claims 11-16, wherein in step e. the ratio of pulp to water is 1:20 (wt./wt.).
- 25 18. Process according to one of claims 11-17, wherein in step e. the extraction is performed for 5 minutes to 24 hours.
 - 19. Process according to one of claims 11-18, wherein in step g. 90% of particles are below 150 μm .
 - 20. Process according to one of claims 11-19, wherein between steps g. and h. steps e. and f. are at least once repeated.
- 21. Process according to one of claims 11-20, wherein in step i. the drying is performed at a temperature which does not exceed 140 °C.8%

- 22. Process according to one of claims 11-21, wherein the process is carried out continuously.
- 23. The use of the flour according to claim 1 in foods, dietary supplements, animal feed,
 pet food, human and animal medicine.